

Data Sheet

Fujitsu PRIMERGY TX150 S8 Mono-Socket Intel® Xeon® processor server

The one-processor tower server - maximized!

PRIMERGY TX tower servers are ideal for use in SMEs or branch offices. They increase operational efficiency by providing rock solid, record-breaking, energy efficient performance. That performance is built on 20-years of pioneering work in Green IT. As a customer, you benefit from a reduction in your organization's environmental impact and lower running costs. The reliability is proven by testing the machines through 5000 boot cycles – far more than other vendors do. PRIMERGY TX servers are also easy to manage via the PRIMERGY ServerView Suite, reducing IT admin workload and costs. Plus, tower to rack conversion kits are available for most TX systems, ensuring investment protection.

PRIMERGY TX150 S8

The PRIMERGY TX150 S8 stands for reliable and expandable server performance for SMEs, branch offices and virtualized environments. New to the PRIMERGY TX150 platform: The Intel® Xeon® E5 processor family provides a maximum of expandability in an one-socket server. Future demand is perfectly covered by 5 PCIe Gen2/3 expansion slots, up to 96 GB of memory and up to 16 hard disk drives. At the same time the optional redundant power supply units and fans ensure stable and reliable computing. And of course: Fujitsu's innovative Cool-safe™ concept together with processors of the Intel® Xeon® E5-1400 and E5-2400 family guarantee best energy efficient performance.













Features & Benefits

Main Features	Benefits
Performance meets energy efficiency	
■ By combining the latest Intel® mono/dual-processor platform	High performance and energy efficiency
and SAS 2.0 hard disks with Fujitsu's engineering, you get best	
performance with low energy consumption	
High availability	- Otal and lability and an extensive business
Hot plug hard disks: choose between max. 8x 3.5-inch or max.	High availability options to suit your business
16x 2.5-inch. Power supply units: choose between standard or	
redundant	
Expandability	
■ Up to 96 GB of memory and 6 expansion slots	High expandability - the TX150 S8 grows with your business
Investment protection	
■ The PRIMERGY TX150 S8 can be integrated into a rack infrastructure	■ High versatility - increases your investment's lifetime
with the tower to rack conversion kit	
Service made easy	
■ The green touch points, the system ID card and the customer self-	■ High serviceability - saves your time
service module make servicing the TX150 S8 easier	
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Technical details

Housing types	Tower	Tower	Tower	Tower	
Storage drive architecture	3.5-inch	3.5-inch	2.5-inch	2.5-inch	
Power supply	Standard	Hot-plug	Standard	Hot-plug	
 Mainboard					
Mainboard type	D 3079				
Chipset	Intel® C602				
Processor quantity and type	1 x Intel® Pentium®	processor / Intel® Xeon® proc	cessor E5-1400 product family	/ Intel® Xeon® processor E5-2400	
. , ,	product family		,	•	
Processor	Intel® Pentium® pro	ocessor 1403			
		LC: 5 MB, Turbo: No, 6.4 GT/s,	Mem bus: 1066 MHz, 80 W)		
	Intel® Xeon® proces	ssor E5-1410			
	(4C/8T, 2.80 GHz, T	LC: 10 MB, Turbo: Yes, 6.4 GT/s	s, Mem bus: 1333 MHz, 80 W)		
	Intel® Xeon® proces				
	(4C/4T, 1.80 GHz, TLC: 10 MB, Turbo: No, 6.4 GT/s, Mem bus: 1066 MHz, 80 W)				
		Intel® Xeon® processor E5-2407			
		LC: 10 MB, Turbo: No, 6.4 GT/s	s, Mem bus: 1066 MHz, 80 W)		
	Intel® Xeon® proces			1)	
	(6C/12T, 1.90 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s , Mem bus: 1333 MHz, 95 W) Intel® Xeon® processor E5-2430				
	•			/\	
		(6C/12T, 2.20 GHz, TLC: 15 MB, Turbo: Yes, 7.2 GT/s , Mem bus: 1333 MHz, 95 W) Intel® Xeon® processor E5-2430L			
	•		7/s , Mem bus: 1333 MHz, 60 W	/)	
	Intel® Xeon® proces		73 / 1110111 0031 1333 111112/ 00 1	·1	
			7/s , Mem bus: 1333 MHz, 95 W	<i>(</i>)	
	Intel® Xeon® proces		· · · · · · · · · · · · · · · · · · ·	•	
			7/s , Mem bus: 1600 MHz, 95 W	/)	
Memory slots	6 (6 DIMMs, 3 chan	nels with 2 slots per channel)			
Memory slot type	DIMM (DDR3)	·			
Memory capacity (min max.)	2 GB - 96 GB				
Memory protection	Advanced ECC				
	Memory Scrubbing				
	SDDC (Chipkill™)				
	Hot-spare memory	e e			
Mamaguanka	Memory Mirroring s		on a su Missa sin a suith i dan tian l	madulas in hath shannal naise of a	
Memory notes				modules in both channel pairs of a me channel. Performance Mode with	
		n all channels of each bank po		ine chamici. I chomiance mode with	
		<u> </u>		Λ	
Memory options			C, 1600 MHz, PC3-12800, DIMM		
			C, 1600 MHz, PC3-12800, DIMM ECC, 1600 MHz, PC3-12800, DI		
Memory options			CC, 1600 MHz, PC3-12800, DIM		
	4 GB (1 module(s)	4 GB) DDR3 LV, unbuffered, EG	CC, 1600 MHz, PC3-12800, DIM	M	
Interfaces					
USB ports	9 x USB 2.0 (2x fror	nt, 4x rear, 3x internal for back	kup, UFM and internal USB)		
Graphics (15-pin)	1 x VGA				
Serial 1 (9-pin)	1 x serial RS-232-C, usable for iRMC or system or shared				
LAN / Ethernet (RJ-45)	2 x Gbit/s Ethernet	·			
Service LAN (RJ45)	1 x dedicated mana	agement LAN port for iRMC S3	(10/100/1000 Mbit/s)		
•		an be switched to shared onb			

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Onboard or integrated Controller	Live Lava . II		. 2412	
RAID controller		ptions are described under Cor	mponents RAID controller	
SATA Controller		s with RAID 0, 1, 10 for Windo	ws and Linux;	
SATA controller type notes	On board SATA controller su	pports RAID levels 0, 1, 10		
Remote Management Controller	Integrated Remote Manage compatible	ment Controller (iRMC S3, 32 N	MB attached memory incl. gra	phics controller), IPMI 2.0
Trusted Platform Module (TPM)	Infineon / separate module;	TCG V1.2 compliant (option)		
Slots				
PCI-Express 3.0 x4 (mech. x8)	2 x Full height 280 mm lend	gth		
PCI-Express 3.0 x16	1 x Full height 280 mm lend			
PCI-Express 2.0 x1 (mech. x16)	1 x Full height 170 mm lend	•		
PCI-Express 2.0 x4 (mech. x8)	1 x Full height 230 mm lend			
PCI-slots	1 x PCI 32/33 MHz, 1x long,	· · ·		
Slot Notes		Express occupied by modular f	RAID controller.	
Drive bays				
Storage drive bays	3.5-inch or 2.5-inch hot-plu	g SAS/SATA		
Notes accessible drives		ed in relevant system configura	ator	
Drive bays (Base unit specific)				
Storage drive bays	Max 8 (4 + 4) x 3.5-inch		Max 16 (8+ 8) x 2.5-inch	
Accessible drive bays		-inch HDD/SSD, or 2 x 3.5-inch	<u></u>	-inch HDD/SSD + LTO/ODD, or
	HDD/SSD + 1 x LTO + 1 x LSE 1 x 5.25/0.5-inch for slimlin)	8 x 2.5-inch HDD/SSD + slim	
General system information				
Fan notes	Redundant fan configuratio	n is only available in combina	tion with redundant PSU	
Number of fans	3	4	3	4
Fan configuration		3+1 redundant	-	3+1 redundant
Fan notes	non redundant / non hot- plug	redundant / non hot-plug	non redundant / non hot- plug	redundant / non hot-plug
Operating panel				
Operating buttons	On/off switch NMI button Reset button			
Status LEDs	System status (orange / yell Identification (blue) Hard disks access (green) Power (amber / green) CPU status Fan status Hard disk error Temperature CSS (yellow) Memory status PSU status (green/ amber) At system rear side: System status (orange / yell Identification (blue) LAN connection (green) LAN speed (green / yellow)			
Service display	Optional: ServerView Local Service Dis	splay (LSD)		

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BIOS

BIOS features

ROM based setup utility

Recovery BIOS

BIOS settings save and restore Local BIOS update from USB device

Online update tools for main Windows and Linux versions Local and remote update via ServerView Update Manager

SMBIOS V2.4

Remote PXE boot support Remote iSCSI boot support

Operating Systems and Virtualization Software

Certified or supported operating systems and virtualization software

Microsoft® Hyper-V Server 2012

Microsoft® Windows Server® 2012 Datacenter Microsoft® Windows Server® 2012 Standard

Microsoft® Windows Server® 2012 Essentials
Microsoft® Windows Server® 2012 Foundation

Microsoft® Windows Storage Server 2012 Standard

Microsoft® Hyper-V™ Server 2008 R2

Microsoft® Windows Server® 2008 R2 Datacenter

Microsoft® Windows Server® 2008 R2 Enterprise

Microsoft® Windows Server® 2008 R2 Standard Microsoft® Windows® Web Server 2008 R2

Microsoft® Windows® Small Business Server Essentials 2011

Microsoft® Windows® Small Business Server 2011 Premium Add-On

Microsoft® Windows® Small Business Server Standard 2011

Microsoft® Windows® Server 2008 Datacenter Microsoft® Windows® Server 2008 Enterprise

Microsoft® Windows® Server 2008 Standard

VMware vSphere™ 5.0 Embedded

VMware vSphere™ 5.0

VMware vSphere™ 4.1

VMware vSphere™ 4.1 Embedded

VMware vSphere™ 4.1 Installable

Novell® SUSE Linux Enterprise Server 11

Novell® SUSE Linux Enterprise Server 10

Novell® SUSE Linux Enterprise Server 10 with XEN

Red Hat® Enterprise Linux 6

Red Hat® Enterprise Linux 5

Red Hat® Enterprise Linux 5 with XEN

Citrix® XenServer®

Operating system release link

Operating system notes

http://docs.ts.fujitsu.com/dl.aspx?id=d4ebd846-aa0c-478b-8f58-4cfbf3230473

Support of other Linux derivatives on demand

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Server Management	
Standard	ServerView Suite - Deploy
Standard	SV Installation Manager
	SV Scripting Toolkit
	SV Deployment Manager (30-day trial version)
	ServerView Suite - Control
	SV Operations Manager incl. PDA and ASR & R
	(Prefailure and Analysis; Automatic Server Recovery and Restart)
	SV Performance Management
	SV Power Management
	SV RAID Manager
	ServerView Suite - Maintain
	SV Remote Management (iRMC)
	SV Update Management (BIOS, Firmware, Windows Drives and SV Agents)
	SV Asset Management
	SV Online Diagnostics
	ServerView Suite - Integrate
	SV Integration packs e.g. for Microsoft System Center, Nagios, HP, SIM, HP NNM, IBM Tivoli, Altiris
	Deployment Solutions and others
Option	ServerView Suite - Deploy
•	SV Deployment Manager (full version)
	ServerView Suite - Maintain
	iRMC Advanced Pack incl. Advanced Video Redirection (AVR) and Remote Storage
	ServerView Suite - Dynamize
	SV Virtual-10 Manager (VIOM)
	SV Resource Orchestrator Virtual Edition (ROR VE)
	SV Resource Orchestrator Cloud Edition (ROR CE)
	ServerView Suite - Integrate
	SV Integration pack for Fujitsu ManageNow® solution
Server Management notes	Regarding Operating System dependencies and product details for ServerView Suite Software Products see dedicated
	Product Data sheets.
Dimensions / Weight	
Floor-stand (W x D x H)	177 x 651 x 456 mm
Rack (W x D x H)	483 x 611 x 177 mm
Dimension notes	Floorstand Width 177 mm without tilt protection (420 mm with tilt protection); depth measured includes handles on
	redundant PSU. Rack depth includes handles of redundant PSU, excludes rack handles / front.
Height Unit Rack	4 U
Weight	16 - 29 kg
Weight notes	Actual weight may vary depending on configuration
Rack integration kit	Rack integration kit as option
	Mack integration kit as option
Dimensions / Weight / Environmental	
(Base unit specific)	
Environmental	
Operating ambient temperature	10 - 35℃
Operating relative humidity	10 - 85 % (non condensing)
Operating environment	FTS 04230 – Guideline for Data Center (installation locations)
Operating environment Link	http://docs.ts.fujitsu.com/dl.aspx?id=e4813edf-4a27-461a-8184-983092c12dbe
Noise emission	Measured according to ISO 7779 and declared according to ISO 9296
	·
Sound pressure (LpAm)	22 dB(A) idle mode/ 22 dB(A) operation mode with low noise mode; 30 dB(A) idle mode/ 30 dB(A) operation mode with SAS HDDs 36 dB(A) idle mode/ 36 dB(A) operation mode with SAS HDDs 36 dB(A) idle mode/ 36 dB(A) operation mode
C	with SAS HDDs;36 dB(A) idle mode/ 36 dB(A) operation mode with HDD extension boxes;
Sound power (LWAd; 1B = 10dB)	4,0 B idle / 4,0 B operation mode with low noise mode; 4,8 idle mode/ 4,8 operation mode with SAS HDDs;5,4 B idle mode/ 5,4 B operation mode with HDD extension boxes;
Noise notes / description	Noise emissions and operation modes depend on system configuration.

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Electrical values	
Power supply configuration	Base unit specific:
11 / 3	1x standard power supply or1x hot-plug power supply or 2x hot plug power supplies for redundancy
Standard power supply output	500 W (90 % efficiency, 80 PLUS gold)
Hot-plug power supply output	450 W (94 % efficiency, 80 PLUS platinum)
Hot-plug power supply redundancy	Yes
Rated voltage range	100 V - 240 V
Rated frequency range	50 Hz - 60 Hz
Rated current max.	2.4
Rated current in basic configuration	pending
Active power (min. configuration)	65 W
Active power (max. configuration)	278 W
Active power note	To estimate the power consumption of different configurations use the Power Calculator of the System Architect:
	http://configurator.ts.fujitsu.com/public/
Apparent power (max. configuration)	296 VA
Heat emission	1000.8 kJ/h (948.6 BTU/h)
Leakage Current	leakage current
Compliance	
Germany	GS GS
Еигоре	CE Class A *
Luiope	CE label according to EU directives: Low-Voltage Directive 2006/95/EC, Electromagnetic Compatibility
	2004/108/EC
	EN 300386
	EN 50371
	EN 55022
	EN 55024
	EN 60950 - 1
	EN 61000-3-2 JEIDA
	EN 61000-3-3
USA/Canada	CSAc/us
	ULc/us
	FCC Class A
Global	CB
	RoHS (Restriction of hazardous substances)
	WEEE (Waste electrical and electronical equipment)
Japan	VCCI Class A + JIS 61000-3-2
Russia	GOST-R
China	CCC (planned)
Australia/New Zealand	C-Tick (AS / NZS CISPR 22 Class A)
Taiwan	BSMI Class A (CNS 13438, CNS 14336)
	CNS 13436
Compliance notes	There is general compliance with the safety requirements of all European countries and North America. National
	approvals required in order to satisfy statutory regulations or for other reasons can be applied for on request.
	Additional compliance with: Kenya:KEBS; Kuwait: KUCAS; Nigeria:SONCap; South Africa:SABS; Belarus: STB;
	Kazahkstan: GOST-K; Ukraine: SEMPRO
	* Warning:
	This is a class A product. In a domestic environment this product may cause radio interference in which case the user
	may be required to take adequate measures.
Compliance link	http://sp.ts.fujitsu.com/sites/certificates/

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Components

Storage disks	SSD SATA, 6 Gb/s, 400 GB, MLC, hot-plug, 2.5-inch, enterprise	
	SSD SATA, 6 Gb/s, 200 GB, MLC, hot-plug, 2.5-inch, enterprise	
	SSD SATA, 6 Gb/s, 100 GB, MLC, hot-plug, 2.5-inch, enterprise	
	SSD SAS, 6 Gb/s, 400 GB, SLC, hot-plug, 2.5-inch, enterprise	
	SSD SAS, 6 Gb/s, 400 GB, MLC, hot-plug, 2.5-inch, enterprise	
	SSD SAS, 6 Gb/s, 200 GB, MLC, hot-plug, 2.5-inch, enterprise	
	SSD SAS, 6 Gb/s, 100 GB, SLC, hot-plug, 2.5-inch, enterprise	
	SSD SAS, 6 Gb/s, 100 GB, MLC, hot-plug, 2.5-inch, enterprise	
	HDD SATA, 6 Gb/s, 500 GB, 7200 rpm, hot-pluq, 3.5-inch, economic	
	HDD SATA, 6 Gb/s, 500 GB, 7200 rpm, hot-pluq, 3.5-inch, business critical	
	HDD SATA, 6 Gb/s, 500 GB, 7200 rpm, hot-plug, 2.5-inch, business critical	
	HDD SATA, 6 Gb/s, 250 GB, 7200 rpm, hot-plug, 3.5-inch, economic	
	HDD SATA, 6 Gb/s, 250 GB, 7200 rpm, hot-plug, 2.5-inch, business critical	
	HDD SATA, 6 Gb/s, 3 TB, 7200 rpm, hot-plug, 3.5-inch, business critical	
	HDD SATA, 6 Gb/s, 2 TB, 7200 rpm, hot-plug, 3.5-inch, business critical	
	HDD SATA, 6 Gb/s, 1 TB, 7200 rpm, hot-plug, 3.5-inch, business critical	
	HDD SATA, 6 Gb/s, 1 TB, 7200 rpm, hot-plug, 2.5-inch, business critical	
	HDD SAS, 6 Gb/s, 900 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise	
	HDD SAS, 6 Gb/s, 600 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise	
	HDD SAS, 6 Gb/s, 600 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise	
	HDD SAS, 6 Gb/s, 500 GB, 7200 rpm, hot-plug, 2.5-inch, business critical	
	HDD SAS, 6 Gb/s, 450 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise	
	HDD SAS, 6 Gb/s, 450 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise	
	HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot-plug, 3.5-inch, enterprise	
	HDD SAS, 6 Gb/s, 300 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise	
	HDD SAS, 6 Gb/s, 300 GB, 10000 rpm, hot-plug, 2.5-inch, enterprise	
	HDD SAS, 6 Gb/s, 146 GB, 15000 rpm, hot-plug, 2.5-inch, enterprise	
	HDD SAS, 6 Gb/s, 1 TB, 7200 rpm, hot-plug, 2.5-inch, business critical	
Backup Drives	DDS Gen5, 36 GB, 3 MB/s, half height, USB 2.0	
	DDS Gen6, 80 GB, 6 MB/s, half height, USB 2.0	
	LTO3HH Ultrium, 400 GB, 60 MB/s, half height, SAS 3Gb/s	
	LTO4HH Ultrium, 800 GB, 120 MB/s, half height, SAS 6Gb/s	
	LTO5HH Ultrium, 1500 GB, 140 MB/s, half height, SAS 6Gb/s	
	RDX Drive, 160 GB, 320 GB, 500 GB, 1 TB , 25 MB/s, half height, USB 2.0	
	RDX Drive, 320 GB, 500 GB, 1 TB , 25 MB/s, half height, USB 3.0	
Optical drives	Blu-ray Disc™ Triple Writer, (6x BD-ROM; 8x DVD; 24x CD), slimline, SATA I	
	DVD-ROM, (16xDVD; 48xCD), half height, SATA I	
	DVD Super Multi, (16xDVD, 8xDVD+RW 6xDVD-RW, 12xDVD-RAM; 48xCD, 32xCD-RW), half height, SATA I	
	DVD Super Multi, (8xDVD/DVD+RW, 6xDVD-RW, 5xDVD-RAM; 24xCD/CD-R, 16xCD-RW), slimline, SATA I	
SCSI / SAS Controller	SAS Ctrl. 6 Gbit/s 8 ports ext. PCle Gen2 x8	
RAID Controller	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 5/6 512MB (D2616), 8 ports int.	
	RAID level: 0, 1, 10, 5, 50, 6, 60, 512 MB Cache, Optional BBU (based on LSI SAS2108)	
	RAID 5/6 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 1GB (D3116), 8 ports int.	
	RAID level: 0, 1, 10, 5, 50, 6, 60, 1 GB, Optional FBU (based on LSI SAS2208)	
	RAID 0/1 Ctrl., SAS/SATA 6 Gbit/s, Fujitsu RAID Ctrl SAS 6G 0/1 (D2607), 8 ports int.	
	RAID level: 0, 1, 10, No BBU support (based on LSI SAS2008)	

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Communication, Network	Ethernet Ctrl. 1 x 1 Gbit/s PCle x1 (Intel®)		
	Ethernet Ctrl. 2 x 10 Gbit/s PCle x8 (Fujitsu)		
	Ethernet Ctrl. 2 x 10 Gbit/s PCle x8 (Intel®)		
	Ethernet Ctrl. 2 x 1 Gbit/s PCle x4 (Fujitsu)		
	Ethernet Ctrl. 4 x 1 Gbit/s PCle x4 (Fujitsu)		
Warranty			
Standard Warranty	1 year		
Service level	On-site Service (depending on country)		
Maintenance and Support Service	es - the perfect extension		
Recommended Service	7x24, Onsite Response Time: 4h - For locations outside of EMEA please contact your local Fujitsu partner.		
Service Lifecycle	5 years after end of product life (new, refurbished or functionally identical parts)		
Service Weblink	http://www.fujitsu.com/fts/services		

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More information

Fujitsu OPTIMIZATION Services

In addition to Fujitsu PRIMERGY TX150 S8, Fujitsu provides a range of platform solutions. They combine reliable Fujitsu products with the best in services, know-how and worldwide partnerships.

Fujitsu Portfolio

Build on industry standards, Fujitsu offers a full portfolio of IT hardware and software products, services, solutions and cloud offering, ranging from clients to datacenter solutions and includes the broad stack of Business Solutions, as well as the full stack of Cloud offering. This allows customers to leverage from alternative sourcing and delivery models to increase their business agility and to improve their IT operation's reliability.

Computing Products

www.fujitsu.com/global/services/computing/

Software

www.fujitsu.com/software/

More information

Learn more about Fujitsu PRIMERGY TX150 S8, please contact your Fujitsu sales representative or Fujitsu Business partner, or visit our website.

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Fujitsu green policy innovation

Fujitsu Green Policy Innovation is our worldwide project for reducing burdens on the environment.

Using our global know-how, we aim to contribute to the creation of a sustainable environment for future generations through IT. Please find further information at http://www.fujitsu.com/global/about/environment/



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